Team Project

Requirement

1. Each team will be assigned a team lead. The team lead has to make the decision all tools to be used in the project and need to host daily meeting to assign and check the work of each teammate.
2. Each team needs to have their own Git Repository(BitBucket or Github). Team leads should create proper branch for teammates to merge code.
3. Each team need to add trainers in their Git Repository.
4. Each team leader has to meet with one of the trainer by the end of the day from 5:00 PM to 6: 00 PM. In the meeting, the team leader has to provide a report about
   A. What the team has finished?
   B. Is there any road blocker?
   C. A brief demo(It can be a unit test, Postman call or UI)
   D. What did each team member work on?
   E. A link for Git repository for today work.
5. Each team has to follow the Agile methodology to have deliverable items every one or two days.
6. “Done is better than perfect” — You should finish all requirements first. But DO think about how to make it better. (This is where you can talk more about during in the interview)
7. The trainer will provide the table design for the database. Each team has to create all the tables using their own types of relational database and add corresponding constraints to the tables(At least Primary Key and Foreign Key constraints). If you have any suggestion to make the table looks better, talk to the trainer.

You have to design and implement a project which is used for new employee onboarding process and visa status management. You have to implement both interfaces for employee and HR.

For Employee

1. Login
   - Employee can login with their username or email
   - Employee can only register an account with the registration token which is created by HR
     - RegistrationToken table
     - See HR session for more detail about how to generate registration token.

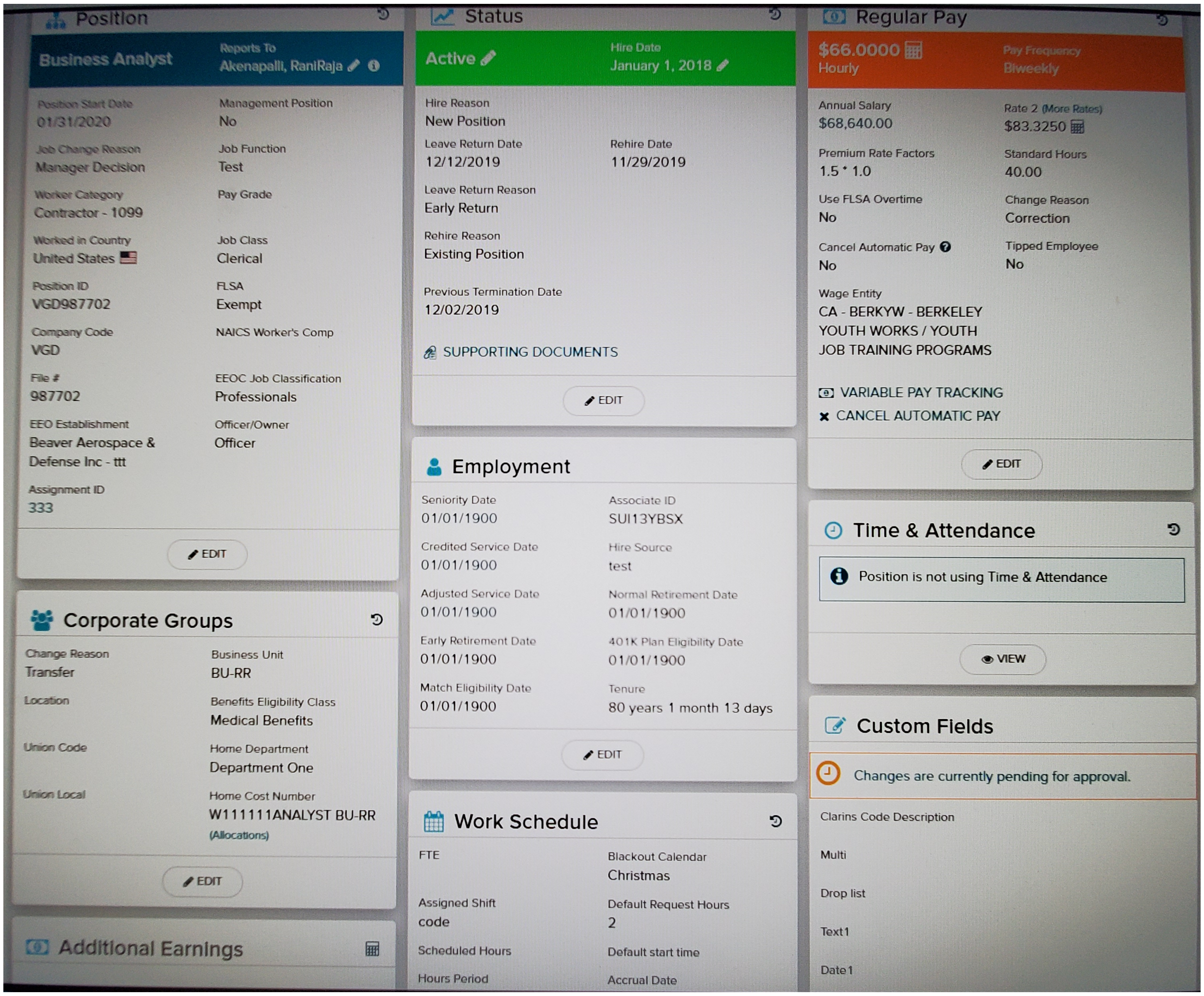
2. Onboarding
   - Force user to set up the username and password after user register their account by using the registration token.
   - After set up with the username and password, user will be redirecting to onboarding page
     - Application Form: User needs to fill out the application form with all following information (* — Mandatory fields)
       - First Name(*), Last Name(*), Middle Name, Preferred Name(English Name or Nick Name)
       - Avatar(should have a default pic for the user in case they don’t upload one)
       - Current Address(*)
       - CeilPhone(*), Work Phone
       - Car Info(Optional: Maker + Model + Color)
         - e.g. Audi_Q7_Black
         - Give a hint for use to enter the field or separate it to 3 fields and check the validity of the field.

- Email (Pre-filled with the email used by getting the registration token, Not Editable)
- SSN(*), Date of Birth(*), Gender(Drop down: Male, Female, I don't want to answer)
- "Are you a citizen or permanent resident of the U.S?"(*) — Check Box
  - If yes, choose either "Green Card" or "Citizen"(*) — Check Box
  - If no, "What is your work authorization?"(*, Dropdown: H1-B, L2, F1(CPT/OPT), H4, Other)
    - If others, input box for specifying the work authorization, start date and expiration date
    - otherwise, start date and end date.
    - In both situation, user has to upload a copy of his/her own work authorization
- "Do you have a drive license?"(*) — Check Box
  - If yes, drive license number, expiration date and upload a copy of drive license
- Reference(Who recommends you to come here, the reference can only be one person with following filed)
  - First name, Last name, Middle name, Phone, Address, Email, Relationship
- Emergency Contact(* — there can be as many as emergency contacts, but at least one should be provided)
  - First name, Last name, Middle name, Phone, Email, Relationship

- After user completes the application form, the documentation page should be loaded with all documents(Basically all documents in DigitalDocument Table).
  - All documents marked as required should be validated before user can submit the application
  - For each document, provide a download link with a icon before the link
  - If user click on the link, open a pop-up with a preview of document(<object> — it will provide a download link)
  - User should be able to upload the document when they completed and sign on the document.
- After all required documents have been uploaded, user should be able to submit the onboarding application.
  - Once submitted, user should be present a page with "Please wait for HR to review your application"
  - User can go to their home page if only if the HR approved his/her application.
  - If the application is rejected, user should be able to receive an email and login to the system with modified password to check which field is wrong or any missing document.

3. Home Page
- Once user's onboarding application has been approved, user should be able to see the home page after he/she login.
- Navigation Bar: User should be able to use the Navigation bar to go to following pages
  - Personal Information
  - Visa Status Management (Only Available if the user is NOT a citizen or green card holder)
    - When hover over, a link to OPT STEM Management should be displayed.
  - Housing
    - House Detail
    - Report facility issue
- In the body of the home page, display a welcome message
  - e.g. "Hello Zack, Welcome to BeaconFire Solution"
  - You can customize your welcome message or add additional features(Quick Links) in the body

4. Personal Information
- User should be able to view his/her own personal information with following design.



- User should be able to see following sections
  - Name Section
    - Name — Legal Name(Full Name)
    - Preferred Name
    - Avatar
    - Date of Birth, Age, Gender
    - SSN(Only Show Last Four Digits)
  - Address Section
    - Primary Address
      - Address Line 1, Address Line 2, City, State, Zip
    - Secondary Address
      - Address Line 1, Address Line 2, City, State, Zip
  - Contact Info Section
    - Personal Email, Work Email
    - Ceilphone, Work phone
  - Employment Section
    - Work Authorization
    - Work Authorization Start Date, Work Authorization End Date
    - Employment Start Date

    - Employment End Date
    - Title
  - Emergency Contact(List View)
    - Full Name
    - Phone
    - Address
  - Document Section(List View)
    - User should be able to view and download all documents he/she has uploaded
    - The document should be displayed as: icon + name
    - When user click on it, show a pop-up with preview(<object>)
    - All documents should be ordered by createdDate descending. (With the most recent on the top)
- Each Section should have an Edit button as shown above. Once clicked, user should be able to edit the content in the section.
  - If user clicked the "Edit", the button will be replaced by two buttons — "Save" and "Cancel"
  - If user clicked "Cancel", show a pop-up or alert "Are you sure to discard all your changes?"

5. Visa Status Management
- User should be able to manage their work authorization in this page.(We just take care of OPT application process now)
  - International students have to use OPT/OPT STEM to work in the U.S. When during the onboarding process, it is required to provide at least the OPT Receipt. The OPT status changes are listed below
    - OPT Receipt (Applied, but don't receive the OPT EAD yet)
    - OPT EAD (Received the OPT EAD)
    - I-983 (Need to be filled for OPT STEM)
    - I-20 (After submitting the I-983 to the school, the student will receive a new I-20)
    - OPT STEM Receipt (Applied for OPT STEM, but don't receive the OPT STEM EAD)
    - OPT STEM EAD (Received the OPT EAD)
  - Whenever the employee's status changes, he/she needs to report to the employer to keep their status updated.
  - This module is designed for sending notification to employees to remind them when they need to apply for OPT STEM and what they need to do next.
- Status Notification
  - When user go to this page, the user should be able to see a message about what they need to do next if their status meet any of following rules:
    - If the user currently hold OPT Receipt or OPT STEM Receipt, they should be able to see next step as "Please upload a copy of your OPT EAD" or "Please upload a copy of your OPT STEM EAD" respectively.
      - After the message, there should be a button for user to upload the document.
    - If the user currently hold OPT EAD and there are less than 100 days before the expiration date of OPT EAD, they should be able to see next step as "Please download and fill your I-983 form".
      - After the message, there should be two documents available for download
        - An empty template
        - A sample template with instruction about how to fill each section
      - There should be a button for user to upload the completed I-983
      - After the user submits the signed a I-983, he/she has to wait for the HR to approve and sign the I-983.
    - If the user is currently waiting for HR to sign the I-983, they should be able to see next step as "Waiting for HR to approve and sign I-983"

        - If the HR upload the signed I-983, they should be able to see next step as “Please send the I-983 with all necessary documents to your school and upload the new I-20”
            - After the message, the user should be able to see a button to upload the new I-20
        - If the user has uploaded the new I-20, they should be able to see the next step as “Please upload your OPT STEM Receipt”
            - After the message, the user should be able to see a button to upload the OPT STEM Receipt
        - If the user has uploaded the OPT STEM Receipt, they should be able to see the next step as “Please upload your OPT STEM EAD”
            - After the message, the user should be able to see a button to upload the OPT STEM EAD
    - A List of Documents the user has uploaded.
        - User should be able to view and download all documents he/she has uploaded
        - The document should be displayed as: icon + name
        - When user click on it, show a pop-up with preview(<object>)
        - All documents should be ordered by createdDate descending. (With the most recent on the top)

6. Housing
    - The employee will be assign to a house when their registration token has been generated. Employees can only view the details about the house but they can not change the house has been assigned to them.
    - House Detail Page
        - Employees should be able to view the following house detail
            - Address
            - List of employees who lives in the house with following details
                - Name (Preferred the Name, if it is empty, then the First Name)
                - Phone
    - Facility Reporting Page
        - Employees should be able to report a facility issue in the house and see all comments by employees or HR
            - A Facility Report with following details
                - Title
                - Description
            - A list of existing reports with following details
                - Title
                - Description
                - Created By(Who report this issue)
                - Report Date
                - Status(There are 3 status: Open, In Progress, Closed)
                    - When a report is created,
                - A list of comment with following details
                    - Description
                    - Created By
                    - Comment Date(If the last modification date is empty, display the created date; otherwise, display the last modification date)
            - For each report, employees can add comments or update comments which is created by the employee.

For HR

1. Login
    - Both employee and HR should have exactly the same login portal. The system should be able to check whether the login user is a HR or an employee.
    - Please hard code at least one account with Role as HR
    - Note: A HR is also an employee. The difference is that HR has one more role called HR

2. Home Page
    - After HR login, she/he should be redirect to the home page with following details
        - Navigation Bar(It should be displayed on all pages for HR)
            - Personal Profile
            - Visa Status Management
            - Hire
            - House Management
        - Status Tracking Table(It should be in the body)
            - The table works as a reminder: if there is any action needed to be taken to update employee Visa status, there should be one item in the table. (Same as the rule for employee visa status management, but the HR can view all status for all employees)
                - e.g If the employee currently hold OPT EAD and there are less than 100 days before the expiration date of OPT EAD.
            - The status tracking table should have following details
                - Name (Legal full name)
                - Work Authorization (F1/OPT, F1/OPT STEM)
                - Expiration Date
                - Day Left
                - Action Button
                    - OPT Receipt, I-983, I-20, OPT STEM EAD —> Send Notification(After clicked the button, HR should be able to send an email to the employee to remind him/her to upload the necessary document)
                    - I-983(ask for signature) —> A download link with preview and an upload button
                - If the HR clicks the name in the table, redirect to Visa Status Management Page

3. Employee Profile
    - HR should be able to view all employe profiles.
    - The profile page for HR is same as Employee profile page with following additional features
        - Summary and Search bar
            - The HR should be able to view the summary of an employee with following details
                - Name(Legal Full Name)
                - SSN
                - Starting Date
                - Visa Status
                - The total number of employees
                    - e.g. If there are 100 employees in the company and the current profile is the 10th employee, then it should be displayed as “<10/100>”
                    - You can use the employee id to decide the order of employees.
            - The HR should be able to search the employee in the search bar with following criteria
                - Name(First Name or Last Name or Preferred Name)
                - Employee ID
                - Note: It is up to you to decide how to display the search results, but make sure your design covered all possible cases: One Record found, Multiple Records found, No record found.

4. Visa Status Management

- This page works almost same as the Status Tracking Table in the Home Page. But it provides more details about user information. But this page will display all visa status even if there is no action needed.
- When HR go to this page, they should be able to see a list of information as follow

<table>
<tr><th></th><th>Name(Legal Name)</th><th>Work Authorization</th><th>Expiration Date</th><th>Day Left</th><th>Action Required</th></tr>
<tr><td>- (Minimize)</td><td>Zack</td><td>F1/OPT</td><td>3/25/2020</td><td>10</td><td>Send Notification</td></tr>
<tr><td rowspan="2"></td><td colspan="2" rowspan="2">Name: Zack Yu
Visa: F1/OPT
Start Date: 3/24/2019
End Date: 3/25/2020</td><td colspan="3">Document Received:
(ICON) OPT STEM Receipt_3/20/2020
(ICON) I-20_2/1/2020
(ICON) I-983_1/25/2020
(ICON) OPT EAD_11/20/2019</td></tr>
<tr><td colspan="3">Next Step: OPT STEM EAD | Send Notification</td></tr>
<tr><td>+ (Expand)</td><td>Kiki</td><td>F1/OPT</td><td>5/25/2020</td><td>61</td><td>Send Notification</td></tr>
</table>

  - When the list is expanded, the content in brown box should support inline editing with double click.

5. Hire

- The HR should be able to create the registration token and review onboarding application or other application such as OPT STEM application
- Registration Token Generation
  - By entering the new hire’s email, the HR should have a button “Generate Token and Send Email” to send the token to the email address provided.
    - The default valid duration should be set through the property file and the value should be 3 hours.
- Application Review
  - HR should be able to review employee’s onboarding application or other applications(Just consider the onboarding application and OPT STEM application for now)
    - Form Application
      - HR should be able to view the same form for the onboarding application with following rules
        - All fields are not editable
        - All fields are populated with user entered data
        - HR should be able to add comment to each input field
        - HR should be able to add comment for entire application
    - Documentation Application
      - HR should be able to view each upload document and add comments for each document without download the document.
      - Note: it is up to you to design how it should look like.
    - Each Employee can only have one ongoing application(The application status is not completed)
      - Application Status: Open, Pending, Rejected, Completed
    - HR should be able to approve or reject the application
      - Once approved, the application status should be changed to Completed and the user is allowed to open another application.

        - If rejected, there should be comments about what is wrong. Then the employee has to fix those errors or upload other documents.
        - Either approved or reject, the employee should be able to receive an email about the application.
    - When HR go to this page, she/he should be able to view all ongoing application. When clicking on each application, it should show the application details listed above.
        - Note: it is up to you to design how it should look like.

6. House Management
    - HR should be able to view, add, delete the house property belonging to the company.
    - View
        - HR should be able to view all house are currently under management by the company with following details
            - Address
            - Landlord (Legal Full Name)
            - Phone
            - Email
            - Number of Employee in the house
        - HR should be able to click on each house record to view the details as follow
            - House Information
                - Address
                - Landlord, Phone, Email
                - Number of Person
            - Facility Information
                - Number of Beds
                - Number of Mattress
                - Number of Tables
                - Number of Chairs
                - Facility Report(List View)
                    - Display all facility reports with (Title + Date + Status) format in a table or similar tag
                    - Each page should only display 3 - 5 reports
                    - All report are sorted by the created date
                    - Once clicked, display a pop-up with all following details
                        - Title
                        - Description
                        - Created By(Who report this issue)
                        - Report Date
                        - Status(There are 3 status: Open, In Progress, Closed)
                            - When a report is created,
                        - A list of comment with following details
                            - Description
                            - Created By
                            - Comment Date(If the last modification date is empty, display the created date; otherwise, display the last modification date)
                    - For each report, HR can add comments or update comments which is created by the HR.
            - Employee Information(List)
                - Name (Preferred Name, if null, then First Name)
                - Phone
                - Email
                - Car(May be empty)
                - If clicked on each row, redirect to Employee profile page and load the clicked employee.

House Info		Facility Info	
Address: 123 ave, Princeton, NJ, 00001 Landlord: ABC Phone: 123-234-4567 Number of Person: 5		# of Beds: 8 # of Mattress: 7 # of tables: 4 # of Chairs: 10 Facility Reports: Tile + Date + Status(List)	
Employee Info			
Name	Phone	Email	Car
Zack	123-234-1111	zack@beaconfire.com	Honda_Accord_Grey